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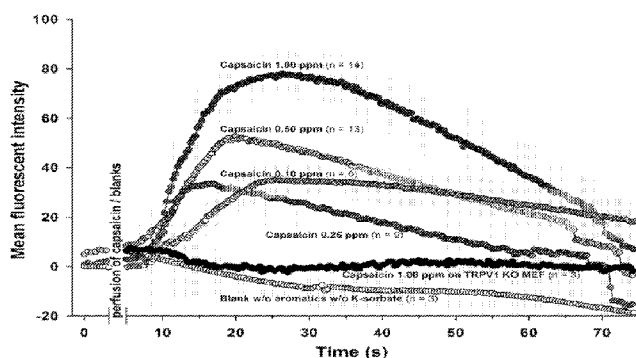
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[Continued on next page]

(54) Title: THERAPEUTIC AGENT FOR INTRANASAL ADMINISTRATION AND METHOD OF MAKING AND USING SAME

(57) Abstract: The present invention provides a composition suitable for intranasal administration comprising capsaicin, dihydrocapsaicin, and nordihydrocapsaicin in the form of capsicum used as a therapeutic agent.



Mean fluorescent intensities (\pm 95% confidence intervals) of CATH.a cells after perfusion of capsaicin formulation (1.00, 0.50, 0.25, 0.10 ppm) and of blank samples. Fluorescent response of mouse embryonic fibroblast (TRPV1 knockout) after perfusion of capsaicin formulation (1 ppm) is also shown.

FIG. 1

**Published:**

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 11/51981

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A01N 45/00; A01N 37/18; A61K 31/16 (2011.01)

USPC - 514/171

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8): A01N 45/00; A01N 37/18; A61K 31/16 (2011.01)

USPC: 514/171

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

IPC(8): A01N 37/18 (2011.01)

USPC: 514/627; 514/626

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST;PGPB, USPT, EPAB, JPAB, ScienceDirect, Dialog

homeopathic, capsicum, pepper, capsaicin, capsaicinoids, fast relief, rosemary, eucalyptol, sea salt, vegetable glycerin, ascorbic acid, intranasal, vasomotor rhinitis, non-allergic rhinitis, allergic rhinitis, idiopathic rhinitis, nasal congestion, sinus pressure, sinus pain etc.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------------|--|---|
| X ----- Y | US 2009/0069433 A1 (PERRY) 12 March 2009 (12.03.2009) Abstract, para[0008]-para[0010], para[0021], para[0024], para[0026], para[0032], para[0033], para[0035], para[0048]-[0051] | 1, 8-17, 22-26, 33-37, 59 and 66-67 ----- 2-7, 18-21, 27-32, 38-58, 60-65 and 68-86 |
| Y | US 2009/0312724 A1 (PIPKIN et al.) 17 December 2009 (17.12.2009) para[0026], para[0231], par[0242] | 2-7, 21, 27-32, 44-49, 60-65, 69-74 and 79-84 |
| Y | US 2004/0151792 A1 (TRIPP et al.) 5 August 2004 (05.08.2004) para[0040], para[0133]-para[0135] | 18-20, 40-58 and 68-86 |
| Y | US 2009/0093446 A1 (BERNSTEIN) 9 April 2009 (09.04.2009) Abstract, para[0006], para[0016] | 38-39, 55-56 and 86 |

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